

ZR48K5E-PFV

HFC, R-407C, 60 Hz, 1 - Phase, 208/230 V

Air Conditioning

Production Status: Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

Summary

Performance		
Evaporator Temp. (°F)	45	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	46200	61900
Power (W):	4260	2850
Current (Amps):	19.05	13.15
EER(BTU/Wh):	10.85	21.7
Mass Flow (lbs/hr):	671	762
Sound Data @ 45 / 130		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2015-10-13	
Mechanical		
Displacement (in^3/Rev):	3.87	
Displacement (ft^3/Hr):		
Overall Length (in):	9.69	
Overall Width (in):	9.69	
Overall Height (in):	16.94	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

Mounting Height (in):	17.17
Suction Size (in),Type:	7 / 8 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	42
Oil Recharge (oz):	34
Net Weight (lbs):	70.9
Internal Free Volume (in^3):	186

Horse Power:

*Overall compressor height on Copeland Brand Product's specified mounting grommets.

LRA High* (Amps):	137.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	34
Max Operating Current (Amps):	30.0
RLA, MCC/1.4(use for contactor selection)(Amps):	24.3
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	21.8
RPM:	3500
Box IP :	21
UL File No:	SA-2337

UL File Date:

*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

Capacitors

Type	Part No	Low MFD	High MFD	Volts	User Description
Run Capacitor	014-0064-18	60.0	0.0	440	
Start Capacitor	014-0061-27	88.0	106.0	330	OPTIONAL

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
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No data available in table

Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
1	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
1	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
2	527-0116-00	1	SPACER-MOUNTING ASSM	
4	914-0037-22	1	RUN CAP KIT	
14	529-0060-24	1	POWER CABLE-MOLDED PLUG	

Accessories

Accessories		
Category	Part Number	Description
Crankcase Heaters	018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
Crankcase Heaters	018-0096-04	Crankcase Heater, 240V, 40W, 48.25" Lead Length
Crankcase Heaters	018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-02	Crankcase Heater, 480V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-01	Crankcase Heater, 120V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-00	Crankcase Heater, 240V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
Crankcase Heaters	018-0096-05	Crankcase Heater, 480V, 40W, 48.25" Lead Length
Crankcase Heaters	018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length
Crankcase Heaters	018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length

Electrical Components

Electrical Components	
Part No: 071-0510-12	Stator
Usage Description: Internal Protector	Part No: 546-5010-22
<u>Vendor Part Number</u>	Usage Description: Stator

16HM166	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 1.34
T. I.	Run Wdg: 0.46
Potential	Start Capacitor
Part No: 040-0166-37	Part No: 014-0061-27
Usage Description: Potential Relay	Low MFD: 88.0
<u>Vendor Part Number</u>	Type:Start Capacitor
RVA2AE6D-946	High MFD: 106.0
<u>Vendor Name</u>	Usage Description: Start Capacitor
ELECTRICA	Volts: 330
Run Capacitor	
Part No: 014-0064-18	
Low MFD: 60.0	
Type:Run Capacitor	
High MFD: 0.0	
Usage Description: Run Capacitor	
Volts: 440	

Nomenclature

ZR48K5E-PFV
Family Series
Z: Scroll
Application Range
R: A/C - R-22/407C/134a
Capacity
48K: Capacity Multiplier-1000
Oil Type
E: Polyol Ester
Motor Type
P: 1 Phase/Capacitor Run, Permanent Split Capacitor
Motor Protection
F: Internal Inherent Protection
Voltage
V: 60Hz (208/230-1) 50Hz (-)

Miscellaneous

Alternate Application

Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	60	1 Ø	208/230 V	R1
Nomenclature				
ZR48K5E-PFV				
Date	Data Group	Field	Old Data	New Data
13-Oct-2015	Rating	PubCode		Y
12-May-2010	Rating	PubCode	PRE	Y
04-Mar-2010	Rating	PubCode		PRE
17-Nov-2010	2 Pt Perf	Amp Cond 1	13.15	19.05
17-Nov-2010	2 Pt Perf	Amp Cond 2	19.05	13.15
17-Nov-2010	2 Pt Perf	Cap Cond 1	61900	46200
17-Nov-2010	2 Pt Perf	Cap Cond 2	46200	61900
17-Nov-2010	2 Pt Perf	EER Cond 1	21.7	10.85
17-Nov-2010	2 Pt Perf	EER Cond 2	10.85	21.7
17-Nov-2010	2 Pt Perf	MassFlow Cond 1	762	671